

In the Claims:

Claims 1-13 (canceled)

14. (previously presented) A method for the start-up of a position measuring device comprising a scanning unit, the method comprising:

switching on a position measuring device that comprises a scanning unit;

subsequent to said switching on, performing a check of a supply voltage of said scanning unit supplied by a voltage source, wherein said performing said check comprises:

measuring a supply voltage of said scanning unit for a first time;

providing a defined load with a voltage; and

calculating an internal resistance of said voltage source; and

activating one or more electrical components in said scanning unit, provided a sufficient supply voltage for said activating has been determined during said performing said check; and

measuring a second supply voltage of said scanning unit at a second time, wherein said calculating said internal resistance is based on said supply voltage of said scanning unit measured at said first time, said second supply voltage and a current consumption of said defined load.

15. (original) The method of claim 14, further comprising calculating an available supply voltage value from said calculated internal resistance of said voltage source and a current demand of said scanning unit during a position measuring operation performed by said scanning unit which would be available to said scanning unit after said activating said one or more electrical components.

16. (original) The method of claim 15, further comprising issuing an error message if said calculated available supply voltage value lies below a threshold voltage needed for dependable operation of said scanning unit.

17. (original) The method of claim 16, further comprising taking into consideration effects, which let said supply voltage drop during said position measuring operation when selecting said threshold voltage.

18. (original) The method of claim 16, further comprising taking into consideration effects, which let said supply voltage drop during a service life of said position measuring device when selecting said threshold voltage.

19. (original) The method of claim 15, further comprising terminating initialization of said position measuring device if said calculated available supply voltage value lies below a threshold voltage needed for dependable operation of said scanning unit.

20. (original) The method of claim 16, further comprising terminating initialization of said position measuring device if said calculated available supply voltage value lies below a threshold voltage needed for dependable operation of said scanning unit.

Claim 21 (canceled).